METHOD AND APPARATUS FOR MAINTAINING COMPRESSION OF THE ACTIVE AREA IN AN ELECTROCHEMICAL CELL

Abstract of Disclosure

In one embodiment, the electrochemical cell comprises: a first electrode, a second electrode, and a membrane disposed between and in ionic communication with the first electrode and the second electrode. A first flow field is in fluid communication with the first electrode and disposed opposite the membrane, with a second flow field in fluid communication with second electrode and disposed opposite the membrane, and an electrically conductive pressure pad adjacent the first flow field and the first electrode. The pressure pad comprises a mixture of at least one substoichiometric oxide of titanium and an elastomeric material.